

Product datasheet for **SC334469**

Citrate transport protein (SLC25A1) (NM_001287387) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Citrate transport protein (SLC25A1) (NM_001287387) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A1
Synonyms:	CMS23; CTP; D2L2AD; SEA; SLC20A3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001287387, the custom clone sequence may differ by one or more nucleotides

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ATGTTTCGAGTTCCTCAGCAACCACATGCGGGATGCCAGGGACGGCTGGACAGCACGCGTGGGCTGCTGT  
GCGGCCTGGGCGCTGGCGTGGCCGAGGCCGTGGTGGTCGTGTGCCCATGGAGACCATCAAGGTGAAGTT  
CATCCACGACCAGACCTCCCAAACCCCAAGTACAGAGGATTCTCCACGGGGTTAGGGAGATTGTGCGG  
GAACAAGGGCTGAAGGGGACGTACCAGGGCCTCACAGCCACTGTCCTGAAGCAGGGCTCGAACCAGGCCA  
TCCGCTTCTTCGTATGACCTCCCTGCGCAACTGGTACCGAGGGGACAACCCCAACAAGCCCATGAACCC  
TCTGATCACTGGGGTCTTCGGAGCTATTGCAGGCGCAGCCAGTGTCTTTGGAAACTCCTCTGGATGTG  
ATTAAGACCCGGATGCAGGGCCTGGAGGCGCACAATACCGGAACACGTGGGACTGCGGCTTGCAGATCC  
TGAAGAAGGAGGGGCTCAAGGCATTCTACAAGGGCACTGTCCCCCGCTGGGCCGGGTCTGCCTGGATGT  
GGCCATAGTGTTCATCTATGATGAAGTGGTGAAGTGTCTCAACAAAGTGTGGAAGACGGACTAA
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Restriction Sites:	Sgfl-RsrII
ACCN:	NM_001287387
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).



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Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001287387.1](#), [NP_001274316.1](#)

RefSeq Size: 1516 bp

RefSeq ORF: 627 bp

Locus ID: 6576

Cytogenetics: 22q11.21

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the mitochondrial carrier subfamily of solute carrier proteins. Members of this family include nuclear-encoded transporters that translocate small metabolites across the mitochondrial membrane. This protein regulates the movement of citrate across the inner membranes of the mitochondria. Mutations in this gene have been associated with combined D-2- and L-2-hydroxyglutaric aciduria. Pseudogenes of this gene have been identified on chromosomes 7, 11, 16, and 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]
Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. This encodes isoform c, which has a shorter N-terminus compared to isoform a.